

NAP-2 (5C7): sc-57377

BACKGROUND

Members of the α -chemokine subfamily of inducible, secreted, pro-inflammatory cytokines contain a similar motif, in which the first two cysteine residues are separated by a single residue (Cys-X-Cys), and are also chemotactic for neutrophils. The platelet basic protein (PBP), a member of the α -chemokine family, resides in the α -granules of platelets and is released upon their activation. Proteolytic cleavage of the amino-terminus of PBP leads to the generation of several peptides, which include mature PBP, connective tissue-activating peptide III (CTAP III, also designated low affinity platelet factor IV (LA-PF4)), β -thromboglobulin (β -TG) and neutrophil-activating peptide 2 (NAP-2). PBP and its N-truncated derivatives mediate inflammation and wound healing. Specifically, NAP-2 activates chemotaxis and degranulation in neutrophils during inflammation. The gene encoding human PBP maps to chromosome 4q13.3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PPBP (human) mapping to 4q13.3.

SOURCE

NAP-2 (5C7) is a mouse monoclonal antibody raised against full length NAP-2 of human origin.

PRODUCT

Each vial contains 100 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

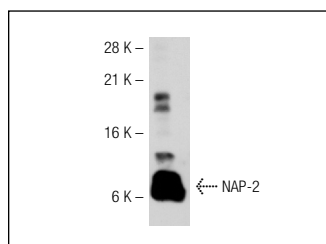
NAP-2 (5C7) is recommended for detection of NAP-2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for PBP siRNA (h): sc-39363, PBP shRNA Plasmid (h): sc-39363-SH and PBP shRNA (h) Lentiviral Particles: sc-39363-V.

Molecular Weight of NAP-2: 14 kDa.

Positive Controls: human platelet whole cell lysate: sc-363773.

DATA



NAP-2 (5C7): sc-57377. Western blot analysis of NAP-2 expression in human platelet whole cell lysate.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.